



OIML Certificate

OIML Member State
The Netherlands

Number R 49/2013-A-NL1-26.09 revision 1
Project number 3750635
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Issuing authority NMI Certin B.V.
Person responsible: M.Ph.D. Schmidt

Applicant and Manufacturer SHENK LTD.
No. 369, East Fangbei Street
Xinji County, Hebei Province
China

Identification of the certified type An ultrasonic water meter
Manufacturers mark:

Type: Fluxense M2100

Characteristics See following pages

This OIML Certificate is issued under scheme A.

This Certificate attests the conformity of the above identified type (represented by the samples identified in the OIML Type Evaluation Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

R 49-1: 2013 "Water meters intended for the metering of cold potable water and hot water"

Accuracy class 2

This Certificate relates only to the metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML International Recommendation identified above.
This Certificate does not bestow any form of legal international approval.

Important note: Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate was issued, partial quotation of the Certificate and of the associated OIML Type Evaluation Report(s) is not permitted, although either may be reproduced in full.

Issuing Authority **NMI Certin B.V., OIML Issuing Authority NL1**
11 August 2026

Certification Board

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The notification of NMI Certin B.V. as Issuing Authority can be verified at www.oiml.org

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The conformity was established by the results of tests and examinations provided in the associated report:

- No. NMI-3750635-01 issued on 15 May 2026 that includes 33 pages.
- No. NMI-3750635-03 issued on 11 August 2026 that includes 12 pages.

Characteristics of the measuring instrument

In Table 1 the general characteristics of the measuring instrument are presented.

In Table 2 the characteristics of the family of instruments are presented.

The construction of the measuring instrument is recorded in the Documentation folder no. T12771-1.

Table 1 General characteristics

Measuring principle	Ultrasonic
Accuracy class	2
Environmental class	O (installed outdoors)
Electromagnetic environment	E1
Temperature range ambient	-25 °C / +55 °C
Water temperature class	T50 (+0,1 °C / +50 °C)
Maximum admissible pressure (MAP)	1,6 MPa (16 bar)
Orientation	All positions (Horizontal, vertical or diagonal)
Flow profile sensitivity class	U0 and D0 (0 x DN upstream and 0 x DN downstream)
Reverse flow	The sensor is not intended to measure reverse flow
Pressure loss class	Δp 63 (0,63 bar) for DN15 Δp 25 (0,25 bar) for DN20
Power supply	Non-replaceable battery (3,4 – 3,8 V)
Software identification*	Version number: U-C0 1.0H02.0 Checksum: q-1AbA.

*) The software version and checksum are displayed on the meter during the scrolling routine of the display.

Table 2 General characteristics of the family of instruments

Meter size	Ø in- and outlet [mm]	Flow rates [m³/h]				Ratio Q3/Q1
		Minimum Q1	Transitional Q2	Permanent Q3	Overload Q4	
15	15	0,00625	0,01	2,5	3,125	400
20	20	0,01	0,016	4,0	5	400

Please note that the flow rates Q1, Q2, Q3 and Q4 can be freely chosen as long as:

- Values Q3 and ratio Q3/Q1 are selected from paragraph 4.1 of OIML R49-1: 2013(E);
- Values mentioned for Q1 and Q2 are minimum values and the ratio Q2/Q1 = 1,6;
- Values mentioned for Q3 and Q4 are maximum values and the ratio Q4/Q3 = 1,25;
- The ratio Q3/Q1 is at least 40.

Table 3 General characteristics of the indicating device

Meter size	Indicating range (minimum value) [m³]	Verification scale interval (minimum resolution) [m³]
DN15; DN20	9999,999999	0,000001

Certificate history:

This revision replaces the previous version.

Revision	Date	Description of the modification
Initial	15 May 2026	-
1	11 August 2026	Lowering the pressure loss class of size DN20.